

ABSTRACT

A piston 4 is composed of a generally cylindrical-shaped roller 2 and a blade 3 which is formed integrally with the cylindrical-shaped roller 2. The piston 4 performs swing motion while orbitally revolving within a cylinder chamber 8 of a cylinder 6. A light-load side portion of an inner circumferential sliding surface 14 of the roller 2 is provided as a small-width portion 16 which is smaller in width than a heavy-load side large-width portion 15. The small-width portion 16 is formed over a range from a point A resulting from a 30° displacement to a point B resulting from a 180° displacement in a rotational direction of the drive shaft 1 from a base point which is given by a joining point O of the roller 2 with the blade. A swing compressor is so positioned that the piston 4 orbitally revolves within the horizontal plane, and the small-width portion 16 of the roller 2 serves as an oil sump in such a manner that upper side portion of the inner circumferential sliding surface 14 is cut out. The piston 4 is made of a sintered material.